

# INTERNATIONAL SEARCH REPORT

International application No  
PCT/NL2006/050123

## A. CLASSIFICATION OF SUBJECT MATTER

INV. H04R25/00 G02C11/06 H02J7/02 H05K5/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

H04R G02C H02J H05K H01R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 97/11574 A (INTERVAL RESEARCH CORPORATION) 27 March 1997 (1997-03-27) page 1, line 1 - page 7, line 23 page 11, line 9 - page 14, line 12 page 16, line 27 - page 20, line 6	72
A		1-22
A	US 3 119 903 A (ROSEMOND LELAND E ET AL) 28 January 1964 (1964-01-28) column 1, line 10 - line 23 column 3, line 7 - column 6, line 29	1-22
A	US 3 825 700 A (JERRY A, US ET AL) 23 July 1974 (1974-07-23) column 1, line 4 - column 2, line 52 column 3, line 15 - column 6, line 22	1-22
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☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

### \* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

20 March 2007

Date of mailing of the international search report

26/03/2007

Name and mailing address of the ISA/

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2005/074137 A1 (BAILEY JOHN) 7 April 2005 (2005-04-07) paragraph [0007] - paragraph [0017] paragraph [0021] - paragraph [0027]	1-22
A	US 5 327 178 A (MCMANIGAL ET AL) 5 July 1994 (1994-07-05) column 2, line 30 - column 3, line 34 column 4, line 12 - column 6, line 68	1-22
A	US 2003/156725 A1 (BOONE MARINUS MARIAS ET AL) 21 August 2003 (2003-08-21) cited in the application paragraph [0014] - paragraph [0036]	1-22
A	WO 97/05673 A (COCHLEAR PTY LTD [AU]) 13 February 1997 (1997-02-13) page 6, line 7 - page 9, line 6	1-22
A	WO 03/084004 A (TWIN SAVER CO LTD [KR]; AN CHI-YUP [KR]) 9 October 2003 (2003-10-09) page 1, line 5 - page 4, line 18	1-22
Y	WO 2004/084582 A (MICROSOUND AS [DK]; OLSEN HENRIK BAGGER [DK]; BENDSEN HENRIK [DK]) 30 September 2004 (2004-09-30) page 1, line 1 - page 7, line 17	66-71
Y	WO 02/15320 A (INCA SYSTEMS CO LTD [KR]; KIM HEON SU [KR]; LEE EUN SU [KR]) 21 February 2002 (2002-02-21) page 1, line 1 - page 4, line 2 page 4, line 18 - page 14, line 22	66-71

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## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 73  
because they relate to subject matter not required to be searched by this Authority, namely:  
Rule 39.1 PCT - Scheme, rules and method for doing business
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☒ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:  
1-22, 66-71, 72
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-22, 72

a first and a second connector housing of a connector assembly for connecting an earpiece to a glasses temple are connected via magnetic contact members which allow an electrical current to flow between them.

Object: allow for a disconnectable mechanical connection between earpiece and glasses temple which also provides for a reliable electrical connection (see also description p. 1, l. 32 - p. 2, l. 14 and p. 10, l. 25-32).

2. claim: 23

a speaker is resiliently connected to a connector housing via two resilient sleeves.

Object: reduce mechanical feedback (see also description p. 16, l. 1-15).

3. claims: 24-47

a cradle set having a transformer to charge the batteries of the hearing-aid glasses, which cradle set is adapted to receive a temple of the hearing-aid glasses.

Object: make the charging process of hearing-aid glasses having rechargeable batteries easier (see also description p. 3, l. 1-5).

4. claims: 48-60

the glasses temple comprises a metal plate.

Object: to protect the electric components of the hearing-aid glasses (see also description p. 4, l. 4-12).

5. claims: 61-65

update of the programming of hearing-aid glasses via telecommunication devices.

Object: allow to spread available updates of hearing-aid programs in an easy way (see also description p. 4, l. 14-18).

6. claims: 66-71

derivation of commands in a hearing aid with a rechargeable battery from a charging voltage.

Object: provide for an easy means to restart a rechargeable hearing aid (see also description p. 30, l. 10-20).

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9711574	A	27-03-1997	AU 7154196 A EP 0852105 A1 JP 2002515197 T US 5737436 A	09-04-1997 08-07-1998 21-05-2002 07-04-1998
US 3119903	A	28-01-1964	NONE	
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WO 2004084582	A	30-09-2004	EP 1606973 A1 US 2006256989 A1	21-12-2005 16-11-2006
WO 0215320	A	21-02-2002	AU 7780701 A KR 20010074181 A TW 533646 B	25-02-2002 04-08-2001 21-05-2003